

**1. IDENTIFICATION**

**Date of issue:** July 2015  
**Product Name:** Bifenthrin Nursery  
**Recommended Use:** Insecticide  
**Restrictions on Use:** Activities contrary to label recommendation  
**EPA Registration No.:** 70506-75-829  
**Company:** Southern Agricultural Insecticides, Inc  
P.O. Box 218  
Palmetto, FL 34220  
(941) 722-3285 Chemtrec (800) 424-9300 (24 hour transportation spill response)  
Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)

**2. HAZARD(S) IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal Category 4

**Label elements**

**Signal word:** Warning

**Emergency Overview**

**Hazard Statements:** Harmful in contact with skin

**Precautionary Statements-Prevention:**

Wear protective gloves/protective clothing/eye protection/face protection

IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor if you feel unwell  
Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life
- May be harmful in contact with skin

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| <b>Chemical name</b> | <b>CAS-No</b> | <b>Weight %</b> | <b>Trade secret</b> |
|----------------------|---------------|-----------------|---------------------|
| Crystalline Silica   | 14808-60-7    | 40              |                     |
| Bifenthrin technical | 82657-04-3    | 0.2             |                     |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### FIRST AID MEASURES

- Eye contact** Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or for treatment advice.
- Skin contact** Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
- Inhalation** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
- Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician or poison control center immediately.

**Protection of First-aiders** Use personal protective equipment.

##### Most Important Symptoms and Effects, Both Acute and Delayed

No information available.

##### Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray, alcohol-resistant foam.

**Unsuitable extinguishing media:** No information available.

**Specific hazards arising from the chemical:** No information available.

**Hazardous combustion products:** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrogen fluoride. Hydrogen chloride.

##### Explosion data

**Protective equipment and precautions for firefighters:** Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Avoid contact with the skin and the eyes. Use personal protective equipment. Wear protective gloves/clothing and eye/face protection.

**Environmental Precautions:** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Methods and material for containment and cleaning up:** Sweep up and shovel into suitable containers for disposal.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.

**Conditions for safe storage, including any incompatibilities:**

**Storage:** Keep containers tightly closed in a cool, well-ventilated place.  
**incompatible materials:** No materials to be especially mentioned.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure guidelines**

**Exposure Limit Respirable dust**

| <u>Chemical name</u> | <u>ACGIH TLV</u>                  | <u>OSHA PEL</u>                  |
|----------------------|-----------------------------------|----------------------------------|
| Silica Sand          | 0.025 mg/m <sup>3</sup> -8 hr TWA | 0.05 mg/m <sup>3</sup> 8 hr TWA: |

**Engineering controls:** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Personal protective equipment**

**Eye/Face Protection:** Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available.

**Skin protection:** Wear protective gloves/clothing. Socks and footwear.

**Respiratory protection:** Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                |                          |
|----------------|--------------------------|
| Physical state | granular                 |
| appearance     | Off-white                |
| color          | No information available |
| Odor           | Slight                   |

**Property**

**VALUES**

|                              |                          |
|------------------------------|--------------------------|
| pH                           | 6.68                     |
| Melting point/freezing point | 7.68 °C / 46 OF          |
| Boiling Point/Range          | No information available |
| Flash Point                  | No information available |
| Evaporation Rate             | No information available |
| Flammability (solid, gas)    | No information available |
| Flammability limit in air    |                          |
| Upper Flammability Limit     | No information available |
| Lower Flammability Limit     | No information available |
| Vapor pressure               | No information available |
| Vapor Density                | No information available |
| Specific gravity             | No information available |

|  |                          |
|--|--------------------------|
| Water solubility                       | No information available |
| Solubility in Other Solvents           | No information available |
| Partition coefficient: n-octanol/water | No information available |
| Autoignition temperature               | No information available |
| Decomposition temperature              | No information available |
| Viscosity, kinematic                   | No information available |
| Dynamic viscosity                      | No information available |
| Explosive properties                   | No information available |
| Oxidizing properties                   | No information available |

**OTHER INFORMATION**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| molecular weight | No information available |
| VOC Content      | No information available |
| density          | No information available |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Reactivity</b>                         | no data available  |
| <b>Chemical stability</b>                 | Stable under normal conditions. Hazardous polymerization does not occur.     |
| <b>Possibility of hazardous reactions</b> | None under normal processing.  |
| <b>Conditions to avoid</b>                | Keep away from open flames, hot surfaces and sources of ignition.            |
| <b>incompatible materials</b>             | No materials to be especially mentioned.                                     |
| <b>Hazardous decomposition products</b>   | Carbon dioxide (CO2). Carbon monoxide. Hydrogen chloride. Hydrogen fluoride. |

**11. TOXICOLOGICAL INFORMATION**

The data on toxicology refer to the active ingredient.

**Information on Likely Routes of Exposure**

|                            |   |
|----------------------------|---|
| <b>Product information</b> | Bifenthrin GC<br>Acute oral LD50 (rat) >5,000 mg/kg - for similar formulation<br>Acute dermal LD50 (rabbit) >2,000 mg/kg - for bifenthrin |
| <b>Inhalation</b>          | May cause irritation of respiratory tract.  |
| <b>Eye contact</b>         | May cause irritation.   |
| <b>Skin contact</b>        | May be harmful if absorbed through the skin.  |
| <b>Ingestion</b>           | MAY BE HARMFUL IF SWALLOWED.  |

| <b>Chemical name</b>    | <b>LD50 Oral</b>                                 | <b>LD50 Dermal</b>                         | <b>LC50 Inhalation</b> |
|-------------------------|--|--|------------------------|
| Bifenthrin<br>7631-86-9 | > 5000 mg/kg ( Rat)<br>(for similar formulation) | > 2000 mg/kg ( Rabbit)<br>(for bifenthrin) | NA                     |

**Information on Toxicological Effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                          |   |
|--------------------------|---|
| <b>sensitization</b>     | No information available.   |
| <b>Mutagenic effects</b> | No information available.   |
| <b>Carcinogenicity</b>   | The information below indicates whether any agency has listed any ingredient as a carcinocen. |

| <b>Chemical name</b>      | <b>ACGIH</b> | <b>IARC</b> | <b>NTP</b> | <b>OSHA</b> |
|---------------------------|--------------|-------------|------------|-------------|
| Silica sand<br>14808-60-7 | -            | Group 1     | 2          | -           |

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Reproductive effects</b>     | Not Available.            |
| <b>STOT - Single Exposure</b>   | No information available. |
| <b>STOT - repeated exposure</b> | No information available. |
| <b>Chronic toxicity</b>         | Avoid repeated exposure.  |
| <b>Target organ effects</b>     | Respiratory System, Eyes. |
| <b>Aspiration hazard</b>        | No information available. |

### **Numerical Measures of Toxicity - Product information**

|             |                    |
|-------------|--------------------|
| LD50 Oral   | > 5000 mg/kg (rat) |
| LD50 Dermal | > 2000 mg/kg (rat) |

## **12. ECOLOGICAL INFORMATION**

### **ecotoxicity**

Bifenthrin : Highly toxic to fish and aquatic arthropods (LC50 values between 0.0038 to 17.8 ug/L. Slightly toxic to water fowl and upland game birds (LD50 between 1800 to >2150 mg/kg)

**Persistence/Degradability** No information available.

**Bioaccumulation/Accumulation** No information available.

**Other Adverse Effects** No information available

## **13. DISPOSAL CONSIDERATIONS**

### **Waste Treatment Methods**

**Waste Disposal Method** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Contaminated packaging** Refer to product label.

## **14. TRANSPORT INFORMATION**

|                 |               |
|-----------------|---------------|
| <b>DOT</b>      | NOT REGULATED |
| <b>TDG</b>      | NOT REGULATED |
| <b>IATA</b>     | NOT REGULATED |
| <b>IMDG/IMO</b> | NOT REGULATED |

Quartz is registered on the TSCA chemical inventory. However, it is not regulated.

## **15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**signal word** CAUTION

**Ventilation Control** PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

**Keep out of Reach of Children. Harmful if absorbed through the skin. Extremely toxic to aquatic organisms including fish and invertebrates.**

**International Inventories**

**USINV** Not determined  
**DSL/NDSL** Not determined  
**EINECS/** Does not comply  
**ELINCS**  
**ENCS** Complies  
**China** Complies  
**KECI** Complies  
**PICCS** Does not comply  
**AICS** Does not comply  
**TSCA** Does not comply

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECI** - Korean Existing and Evaluated Chemical Substances  
**Picca** - Philippines Inventory of Chemicals and Chemical Substances  
**Ales** - Australian Inventory of Chemical Substances

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

| <b>Chemical name</b>              | <b>SARA 313 - Threshold Values</b> |
|-----------------------------------|------------------------------------|
| Bifenthrin technical - 82657-04-3 | 1.0                                |

**SARA 311/312 Hazardous Categorization**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | yes |
| <b>Chronic health hazard</b>             | yes |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**CERCLA**

**SARA Product RQ** 0

**RCRA**

**Pesticide Information**

| <b>Component</b>                           | <b>FIFRA - Restricted Use</b> | <b>FIFRA - Pesticide Product Other Ingredients</b> | <b>FIFRA - Listing of Pesticide Chemicals</b> | <b>California Pesticides - Restricted Materials</b> |
|--|-------------------------------|--|---|---|
| Silica sand<br>14808-60-7 ( >40 )          |                               |  | X   |   |
| Bifenthrin technical<br>82657-04-3 ( 0.2 ) |                               |  | X   |   |

**State Regulations**

**State Right-to-Know**

| <u>Chemical name</u> | <u>Massachusetts</u> | <u>New Jersey</u> | <u>Pennsylvania</u> | <u>Illinois</u> | <u>Rhode Island</u> |
|----------------------|----------------------|-------------------|---------------------|-----------------|---------------------|
| Silica Sand          |                      | X                 |                     |                 |                     |
| Bifenthrin technical |                      | X                 |                     | X               |                     |

**International regulations**

**U.S. EPA Label information**

**EPA Pesticide registration number** 70506-74-829

**16. OTHER INFORMATION**

**NFPA HEALTH 1                      Flammability 1                      Instability 0                      Physical hazard -**

Southern Agricultural Insecticides, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.